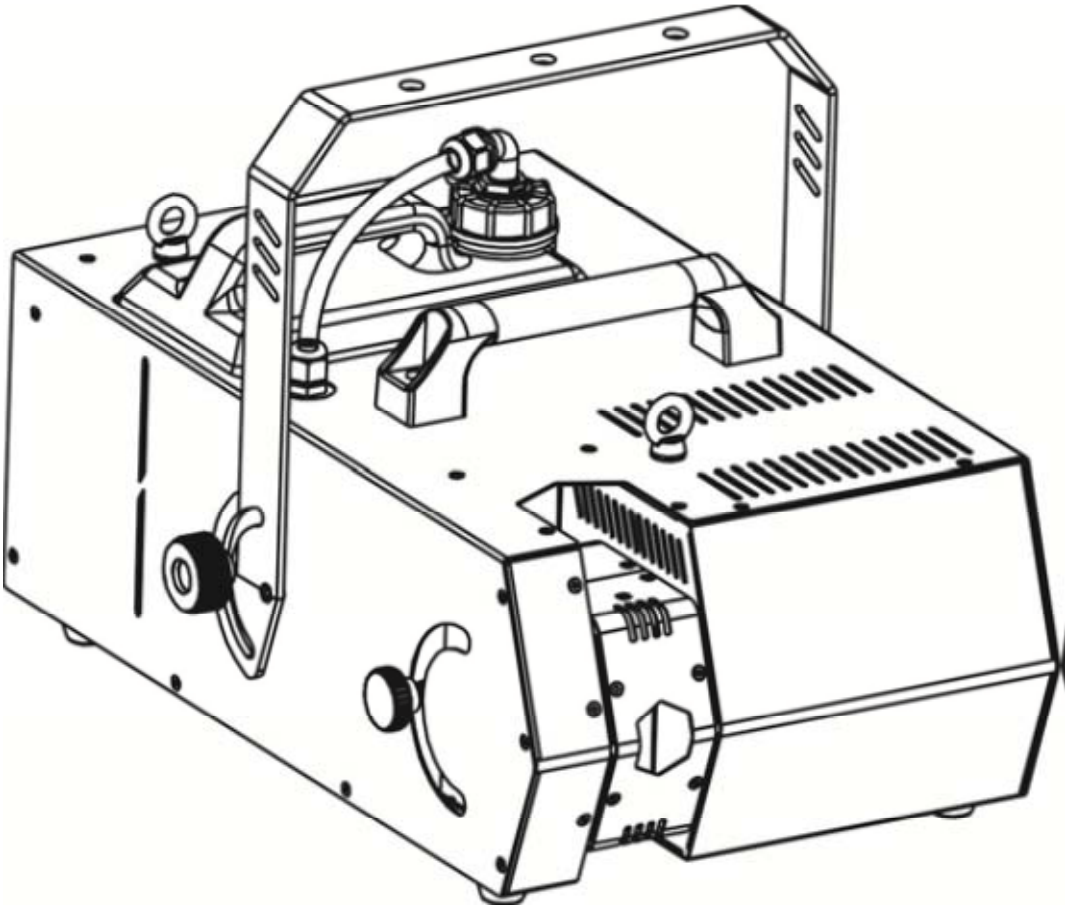
User manual



DSK 2000

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1. Safety instructions

- This device is suitable for indoor use only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only fuses of the same type and original parts as spare parts.
- Protect the unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

1.1. FOR SAFE AND EFFICIENT OPERATION

Be careful with heat and extreme temperature

Avoid exposing it to direct rays of the sun or near a heating appliance.

Not put it in a temperature bellow 32°F /0°C, or exceeding 104°F /40°C.

Keep away from humidity, water and dust

Do not place the set in a location with high humidity or lots of dust.

Containers with water should not be placed on the set.

Keep away from sources of hum and noise

Such as transformer motor, tuner, TV set and amplifier.

To avoid placing on un-stable location

Select a level and stable location to avoid vibration.

Do not use chemicals or volatile liquids for cleaning

Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

If out of work, contact sales agency immediately

Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

Take care with the power cable

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug.

When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.

Important: Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.

- Disconnect the unit from the electricity supply before refilling liquid, cleaning or maintaining the unit.
- Keep this unit dry.
- For indoor use only.
- Only 3-prong grounded outlet is available for all the DSK models. Please make sure that the unit's voltage is within range of rated one.
- Please make sure that your smoke machine is disconnected with power before refilling liquid.
- Keep the unit in upright position at any time.
- Please turn off the power and pull out the plug when the unit is not in use.
- There is no waterproof-function for the DSK-series. Please disconnect with the power immediately as soon as moisture, water, or smoke liquid gets inside of the housing, and connect with the distributor or service technician before using the unit again.
- This unit is for adults use only. Keep away from children. Never leave the unit running unattended.
- Never aim the output nozzle directly at people.
- The output smoke is very hot. Please keep at least 50cm away from the nozzle during operation.
- Put the unit in a well-ventilated area. Never seal the unit's vents. Allow a free air space of at least 20cm around the sides and top of the unit to guarantee adequate ventilation.
- Never aim the output nozzle at open flames.
- The output nozzle becomes very hot(200°C)during operation, please keep flammable materials at least 50cm away.
- Please cool down the smoke machine before cleaning or maintaining it.
- Never add any flammable liquids(such as oil, gas, perfume) to the smoke liquid.
- Use only high-quality, water-based liquid recommend by your distributor. Other fog liquids may cause clogging or spouting.
- Always make sure there is sufficient liquid in the tank. Operating this unit without liquid might cause damages to the pump as well as over-heating of the heater.
- If the unit fails to work normally, please stop using it. Put out all the fog liquids, pack the unit with solid materials(preferably with the original package), and return it to the distributor for maintenance.
- Always drain the tank before transporting this unit.
- Never drink the fog liquids. If it is ingested, connect with a doctor immediately. If the fog liquids come in contact with skins or eyes, rinse thoroughly with water.

Note: please pay attention to all the warning labels and instructions printed on the exterior of the unit.

2. Introduction

Thank you for choosing DSK-series Smoke Machine. Now you own the most advanced high-performance smoke machine. We kindly suggest to read this manual carefully before using the unit. Abiding by all the instructions of using the DSK-series will ensure you long-term stable and satisfactory effects. Please follow these operation, safety and maintenance instructions to ensure the machine's normal work and prolong its usage life.

3. Unpacking

Open the shipping packing and check whether all the necessary accessories to operate the unit have arrived complete and intact.

The shipping packing should contain the following items:

1. One unit of DSK-2000 smoke machine
2. Power cord
3. One set of W-4 transmitter
4. User manual

4. Control

4.1. Installation

- Take out the unit from the shipping package, make sure all the foams and plastic padding are removed, especially in the nozzle areas.
- Place the unit on a flat surface and remove the tank cap.
- Place the liquid tube into the tank.
- Fill the tank with high-quality, water-based fog liquid recommended by the distributor. Any other types of liquids may cause spraying water or serious clogging problem. After infusing liquid, seal the tank with cap. Be careful that the liquid doesn't exceed the maximum level. Do NOT OVERFILL.

4.2. Explanation of menu and display

4.2.1. Explanation of the buttons

There are 6 buttons in total on the control panel of DSK-2000.

They are FUNCTION, TIMER, UP, DOWN, VOLUME and MANUAL respectively. User can conduct settings in the sub menus according to different demands.

When the heating-up process in completed, the LCD (Liquid Crystal Display) screen shows "Ready to Fog W" (" W" means the unit is under wireless control mode.)

1. When LCD displays "Ready TO Fog", press "FUNCTION" button once, then the LCD shows "Interval Set". In this situation, user can adjust the smoke output interval in the Timer mode (the range is from 1 to 200 seconds) by "UP/DOWN"buttons.

2. When LCD displays "Ready TO Fog", press "FUNCTION" button twice, then the LCD shows "Duration Set". In this situation, user can adjust the smoke output duration in the Timer mode (the range is from 1 to 200 seconds) by "UP/DOWN"buttons.

3. When LCD displays “Ready TO Fog”, press “FUNCTION” button three times, then the LCD shows “Timer Out”. In this situation, user can adjust the smoke output volume in the Timer mode (the ranges from 1% to 100%) by “UP/DOWN”buttons.

When LCD displays s “Ready TO Fog”, press “TIMER” button, user can activate Timer mode and can end this mode by pressing the “TIMER” button again.

Note: there is a Non-stop Burst function in Timer Out from 1% to 100%. Choosing this function can make the unit generate continuous fog output under Timer mode.

4. When LCD displays “Ready TO Fog”, press “FUNCTION” button four times, then the LCD shows “VOLUME OUT”. In this situation, user can adjust the smoke output volume in the Volume mode (the range is from 1% to 100%) by “UP/DOWN”buttons. User can activate volume mode by pressing VOLUME button when the LCD shows “Ready To Fog” and end this mode by pressing VOLUME button again.

Note: there is a Non-stop Burst function in Volume Out from 1% to 100%. Choosing this function can make the unit generate continuous fog output under Volume mode.

5. When LCD displays “Ready TO Fog”, press “FUNCTION” button five times, then the LCD shows “DMX512 Add”. In this situation, user can adjust the DMX address by “UP/DOWN”buttons.

6. When LCD displays “Ready TO Fog”, press “FUNCTION” button six times, then the LCD shows “Wireless ON”. In this situation, pressing either “UP” or “DOWN” button once can switch off the wireless function. If the LCD shows ”Wireless OFF”, pressing either “UP” or “DOWN” button once can switch on the wireless function

7. When LCD displays “Ready TO Fog”, keep pressing the “MANUAL” button can force the machine to generate 100% full fog output. As soon as you release the MANUAL button, the unit stops spraying fog immediately.

8. There is an “Optoelectronics Fluid Sensor” inside the DSK-2000. Thus, when the fluid tank is empty, the pump will be shut down automatically. At this time, the LCD screen will show “Empty Fluid”. Please refill the tank with sufficient fog liquid and keep pressing the MANUAL button until the “Empty Fluid” disappears on the screen.

9. For DSK-2000, user can switch off the fluid sensor function if it is not needed. When LCD displays “Ready To Fog”, press “FUNCTION” seven times, the LCD screen shows “Fluid Sensor On”. In this situation, pressing either “UP” or “DOWN” button once can switch off the fluid sensor. If the LCD shows “Fluid Sensor Off”, pressing either “UP” or “DOWN” button once can switch on the fluid sensor.

10. When the heating process is completed and ready to fog, the status of wireless function and fluid sensor can be seen on the display of the LCD screen as follows:

- When the wireless function is on, LCD displays “Ready To Fog W” (W means wireless)
- When the fluid sensor is on, LCD displays “Ready To Fog S” (S means sensor)
- When the above two features are both on, LCD displays “Ready To Fog WS”
- When the above two features are both off, LCD displays “Ready To Fog”

4.2.2. Use of the remote

1. All receivers can receive signals from any registered transmitters.
2. Each receiver can record 5 transmitters at most.
3. The included transmitter has been registered before shipment. User can use it directly without setting any more. The initial setting is conducted by pressing button “locking” and it can be stopped by pressing “unlock” button.
4. If users want to use other 4.Transmitters(except the included one) to control the machine, the setting must be completed within 15s after switching on the machine, because 15s later, it will leave “transmitter setting mode” automatically.

Setting example 1.

If users want to use other 3 transmitters, press button A of each transmitter for 1s rapidly within the above mentioned 15s when the machine is turned on and LCD (Liquid Crystal Display) screen shows “wireless Setup” to complete registration.

Please note that after switching on the machine for 15s and the LCD screen shows “wireless setup ok”, user cannot add any transmitters to the receiver because at this time, the machine has already left “transmitter setting mode”

Setting example2

If users want to use 1 transmitter to control 2 or even more machines, they have to turn on the machines at the same time, and press the button ”locking” of the transmitter for 1s within the 15s when the LCD screens on the machines show” wireless setup” (this procedure is the same to registering one machine)

5. If not any new transmitters are registered when the machine is switched on, the memory of the receiver will remain the record of last operation.
6. Please note if a new transmitter is registered when machine is switched on, no matter how many new transmitters are registered(max 5), all records of previous registered transmitters will be cleared.

5. DMX

This fog machine has a built-in DMX. It uses 1 channel to control volume output. This channel has a value range from 0 to 255. Timer functions such as duration and interval can be programmed using the dmx controller, or the dmx control software operated by the lighting and effects personnel.

If channel A has values from 0 to 5, the unit is off.

From the value 6 to 255, the volume of the fog output is regulated. Value 6 is the minimum volume of fog and 254 approaching the maximum. The volume output rises as the dmx value increases.

Note:

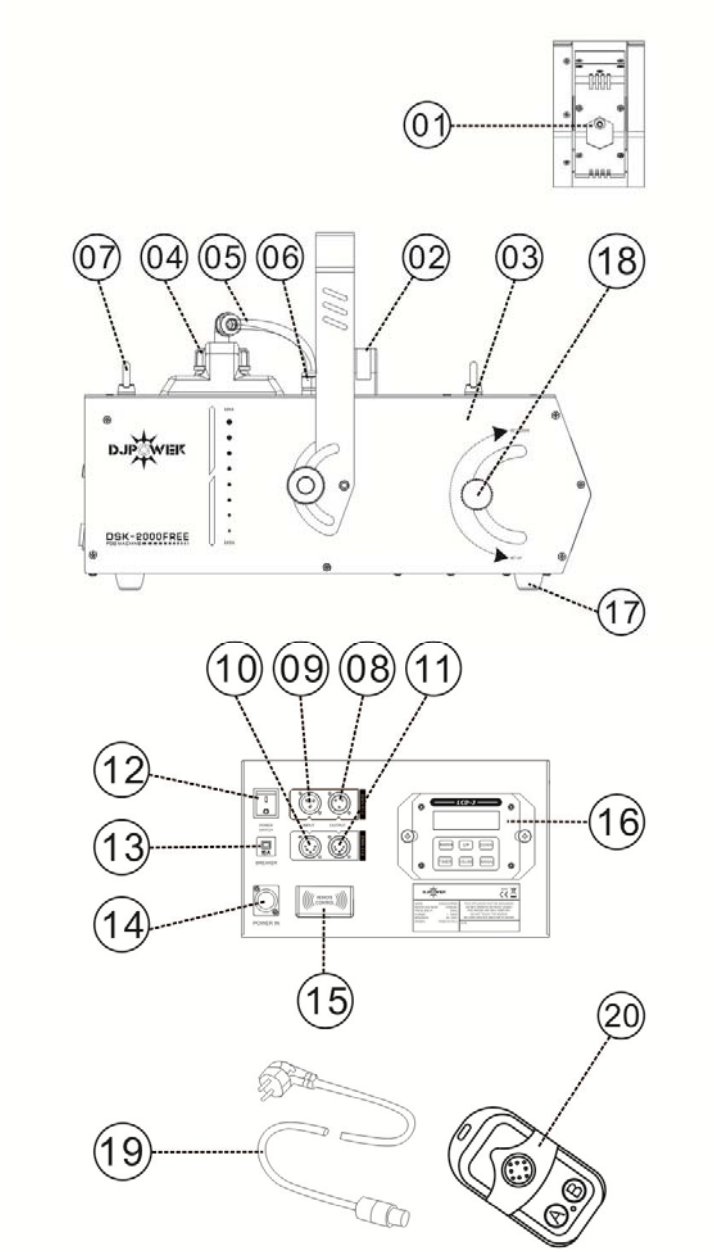
If you experience low fog output, pump noise or no output, please disconnect the power immediately. Check the fluid level, the external fuse, and power, if all the above issues are ok, plug the unit again. If fog does not come out after pressing the remote button for 30s, check the hose attached to the tank to make sure there is fluid going through the hose. If you are unable to justify the causes of the problem, do not continue pressing the remote button, as this may damage the unit. Return the machine to your dealer.

6. Technical data

Voltage	**AC 220V-240V 50/60Hz**
Fuse	8A/250V
Power consumption	1800W
Fog Output	Ca 2200 cuft/min
Preheat time	Ca 9min
Tank Volume	5l
Controller	DMX oder Remote
Weight	18kg
Measures	575 x 415 x 355 mm
DMX channels	1

6.1. Explanation of the hardware

01-Nozzle
02-Handle
03-Body
04-Tank&tank's cap
05-PU tube&filter
06-Tube adaptor
07-Safety ring
08-Control outlet socket
(3 pin XLR for dmx)
09- Control input socket
(3 pin XLR for dmx)
10-Control outlet socket
（5 pin XLR for dmx）
11-Control input socket
(5 pin XLR for dmx)
12-Rocker switch
13-Circuit breaker
14-Power socket
15- W-4wireless receiver
16-Control panel
17-Foot
18-Knob
19- Power cord
20- W-4 wireless transmitter



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